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TITLE: SPEED RATIO INCREASE CONTROL METHOD OF HYDROMECHANICAL SPEEDCHANGE/STEERING MECHANISM UNDER ACCELERATION

PUBN-DATE: July 31, 1985

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ABSTRACT:

PURPOSE: To achieve acceleration matching to the operational feeling by controlling the speed change ratio such that the acceleration of an engine associated with hydromechanical speedchange gear will return within predetermined range upon exceeding over said range thereby increasing the rotation of output shaft together with the engine rotation under acceleration.

CONSTITUTION: An engine 2 and output shafts 4, 5 are coupled through a hydromechanical speed changer 1 to drive hydraulic pumps 6, 7 thus to feed pressure oil to hydraulic motors 8, 9. A controller 28 will operate the acceleration from a signal fed from an engine rotation detector 15. If it has exceeded over predetermined level, said motors 8, 9 are driven to increase the speedchange ratio thus to increase the engine load and to bring the engine rotation increasing rate constant while simultaneously increase the car speed.

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